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LISTS OF PUBLICATIONS AND PATENTS
OF
BUREAU OF AGRICULTURAL AND INDUSTRIAL CHEMISTRY
AGRICULTURAL RESEARCH ADMINISTRATION
U. S. DEPARTMENT OF AGRICULTURE

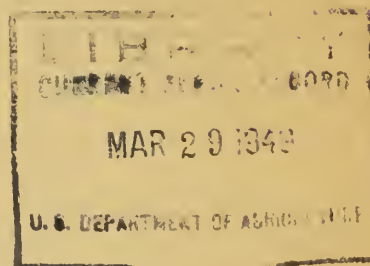
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By

T. D. Jarrell

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THE HISTORY OF THE

REIGN OF
 CHARLES THE FIRST
 IN THE YEAR 1649

BY JOHN HENRY

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RESEARCH PUBLICATIONS

(Classified according to subappropriation items.)

Agricultural Chemical Investigations 1/

Agricultural Chemical Research Division. (2100 Robert E. Lee Blvd., New Orleans 19, Louisiana.)

Comparison of several types of apparatus devised for the determination of volatile oil in citrus juices. By A. Laurence Curl. Assoc. Off. Agr. Chem. Jour. 30(3): 567-575. 1947.

The origin of the off-flavor which develops in processed orange juice. By A. Laurence Curl and M. K. Veldhuis. Fruit Prod. Jour. and Amer. Food Mfr. 26(11): 329-330, 342. 1947.

Concentrated orange juice storage studies. The effects of degree of concentration and of temperature of storage. By A. Laurence Curl. Canner 105 (13): 14-16, 38, 40, 42. Sept. 20, 1947.

An experiment on partial concentration as a means of standardizing low-solids orange juice. By Edwin L. Moore, L. G. MacDowell, C. D. Atkins, and Richard L. Huggart. Fruit Prod. Jour. and Amer. Food Mfr. 27(3): 72-74. 1947. (With Fla. Citrus Commission.)

Experiments on production of feed yeasts from citrus press juice. By M. K. Veldhuis and W. O. Gordon. Citrus Indus. 29 (1): 7-9. 1948. Fla. State Hort. Soc. Proc. Pages 32-36. 1947. (With Southern Reg. Res. Lab.)

Bacteriological survey of some citrus canneries in Florida with special attention to Escherichia coli. By Roger Patrick. Fla. State Hort. Soc. Proc. Pages 36-38. 1947. Citrus Indus. 29(6): 20-21. 1948.

Some oil-soluble dyes which stain suberized deposits in orange vesicles. By Gladys S. King. Stain Technol. 22(4): 145-147. 1947.

Peripheral deposits of citrus fruit vesicles stained by oil-soluble dyes. By Gladys S. King. Amer. Jour. Botany 34(8): 427-431. 1947.

A report on preliminary studies for a replacement slab dressings; dressings for candy slabs. By H. H. Hall and F. J. Fahs. Mfg. Confectioner 27(9): 40-41. 1947 (With Natl. Confectioners' Assoc.)

1/Publications of the Enzyme Research Division are listed under "Special Research in Agriculture," although the work was supported in part by the subappropriation for Agricultural Chemical Investigations and in part by the Special Research Fund.

New concentrated puree affords outstanding texture keeping qualities: improved fruit marshmallow. By H. H. Hall and F. J. Fahs. Mfg. Confectioner 27(10): 32, 35. 1947. (With Natl. Confectioners' Assoc.)

An information study on how to use isolated proteins in hard candies. By H. H. Hall and F. J. Fahs. Mfg. Confectioner 27(11): 32, 35. 1947. (With Natl. Confectioners' Assoc.)

Report of studies on uniformity of quality of beet sugars, NO. XXVI. I. Chemical and physical studies on beet sugars of the 1946 campaign. By C. A. Fort and S. Byall; II. Biological studies of the 1946 beet sugars. By H. H. Hall and Dorothea J. Teunisson. AIC-158. (Processed.) 1947.

Sucrose, dextrose, and levulose content of some domestic varieties of sorgo at different stages of maturity. By E. K. Ventre, S. Byall, and J. L. Catlett. Jour. Agr. Res. 76(5 & 6): 145-151. 1948.

Determination of aconitic acid in sugarhouse products. By J. A. Ambler and Earl J. Roberts. Analyt. Chem. 19(11): 877-878. 1947.

The effect of pH on the stability of cis-aconitic acid in dilute solution. By J. A. Ambler and E. J. Roberts. Jour. Organic Chem. 13(3): 399-402. 1948.

Determination of aconitic acid in mixtures with citric acid. By J. A. Ambler and E. J. Roberts. Analyt. Chem. 19(11): 879-880. 1947.

Bacteriological changes during the fermentation of certain brined and salted vegetables. By John L. Etchells, Ivan D. Jones, and William M. Lewis. U. S. Dept. Agr. Tech. Bul. 947. 64pp. 1947. (With N. C. Agr. Expt. Sta.)

Effect of drying and storing tung seeds on quality of the oil and milling characteristics of the seeds. By Raiford L. Holmes, Frank C. Pack, and S. G. Gilbert. Amer. Oil Chem. Soc. Jour. 24(9): 311-314. 1947. (With Bur. Plant Indus., Soils, and Agr. Engin.)

Progress report on drying and storage of tung seeds. By Raiford L. Holmes and Frank C. Pack. Amer. Tung Oil Assoc. Mimeographed Circular. 1947.

Studies on the refractive index and dispersion of American tung oil. By Raiford L. Holmes and Frank C. Pack. Amer. Oil Chem. Soc. Jour. 25(5): 163-167. 1948.

Combined absorption and titration tube for volumetric determination of carbon dioxide. By Earl J. Roberts. Analyt. Chem. 19(8): 616-617. 1947.

Fruit and Vegetable Chemistry Laboratory. (148 South Mission Road, Los Angeles 33, California.)

Determination of flavanones in citrus fruits. By W. B. Davis. Analyt. Chem. 19(7): 476-478. 1947.

Fruit and Vegetable Products Laboratory. (Washington State College, Box 8,
Pullman, Washington.)

Yield and processing quality of sweet corn varieties grown at Lewiston, Idaho.
By James E. Kraus, A. M. Neubert, and G. H. Carter. Food Packer 29(5): 65-66,
68-70, 72. 1948. (With Idaho Agr. Expt. Sta.)

Harvesting freestone peaches for processing. By A. M. Neubert, C. L. Bedford,
J. H. Schultz, and G. H. Carter. Wash. State Hort. Assoc. Proc. (43rd.
Annual Meeting.) Pages 187-191. 1947.

Pharmacology Laboratory. (800 Buchanan Street, Albany 6, California.)

Effect of rutin on permeability of cutaneous capillaries. By Anthony M.
Ambrose and Floyd DeEds. Jour. Pharmacol. and Expt. Ther. 90(4): 359-363.
1947. Abstract under title "The Protective Action of Rutin Against Capillary
Injury," published in Fed. Amer. Soc. Expt. Biol. Proc. 6(No. I, pt. II):
306. 1947.

The effect of rutin on anaphylactic and histamine shock. By Robert H. Wilson
and Floyd DeEds. Science 107(2780): 369-370. 1948.

The effect of rutin on oxygen toxicity in rats. (Abs.) By Shannon C. Allen and
Talbot G. Mortarotti. Fed. Amer. Soc. Expt. Biol. Proc. 7(No. I, pt. I):
202. 1948.

The effect of rutin on blood pressure in dogs and rabbits. (Abs.) By Anthony
M. Ambrose. Fed. Amer. Soc. Expt. Biol. Proc. 7(No. I, pt. I): 203. 1948.

The effect of rutin and quercetin on scorbutic guinea pigs. (Abs.) By Anthony
M. Ambrose. Fed. Amer. Soc. Expt. Biol. Proc. 7(No. I, pt. I): 202-203.
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Subtilin in blood after parenteral administration. (Abs.) By R. H. Wilson,
J. C. Lewis, and E. M. Humphreys. Fed. Amer. Soc. Expt. Biol. Proc.
7(No. I, pt. I): 266. 1948. (With Western Reg. Res. Lab.)

The carcinogenic activity of 2-acetaminofluorene. II. Effects of concentration
and of duration of exposure. By Robert H. Wilson, Floyd DeEds, and Alvin J.
Cox, Jr. Cancer Res. 7(7): 444-449. 1947. (With Stanford Univ. School of
Med.)

The carcinogenic activity of 2-acetaminofluorene. III. Manner of administration,
age of animals, and type of diet. By Robert H. Wilson, Floyd DeEds, and
Alvin J. Cox, Jr. Cancer Res. 7(7): 450-452. 1947. (With Stanford Univ.
School of Med.)

The carcinogenic activity of 2-acetaminofluorene. IV. Action of related
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Cancer Res. 7(7): 455-458. 1947. (With Stanford Univ. School of Med.)

The carcinogenic activity of 2-acetaminofluorene. Characteristics of the
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School of Med.)

Isopropyl alcohol in the paraffin infiltration technique. By Elton K. Duxtader. Stain Technol. 23(1): 1-2. 1948.

A simple adaptation of the mercury calibration of Warburg manometer sets to insure interchangeability. By Shannon C. Allen. Science 107(2788): 604-605. 1948.

Microbiology Research Division. (Room 303-A, North Building, Agricultural Research Center, Beltsville, Maryland.)

Occurrence of multiple Salmonella types in spray-dried whole egg powder. By Mathilde Solowey, Aaron Rosenstadt, Earle H. Spaulding and Cecilia Chemerda. Poultry Sci. 27(1): 12-16. 1948. (With Temple Univ. School of Med.)

Survival of Salmonella in reconstituted egg powder subjected to holding and scrambling. By Mathilde Solowey and Eleanor J. Calesnick. Food Res. 13(3): 216-226. 1948.

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Heat resistance of Salmonella organisms isolated from spray-dried whole-egg powder. By Mathilde Solowey, Ruth R. Sutton, and Eleanor J. Calesnick. Food Technol. 2(1): 9-14. 1948.

Salmonella organisms on and in chicken eggs. By A. Cantor and Vernon H. McFarlane. Poultry Sci. 27(3): 350-355. 1948.

Microbiology of spray-dried whole egg. I. Plate and direct counts. By Vernon H. McFarlane, Alice J. Watson, Ruth R. Sutton, and William Kurman. Food Res. 12(4): 311-327. 1947.

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Agricultural Research Center, Beltsville, Maryland.)

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Isolation of rutin from tomatin concentrates. By Thomas D. Fontaine, Roberta Ma, Janet B. Poole, William L. Porter, and Joseph Naghski. Arch. Biochem. 15(1): 89-93, 1947. (With Eastern Reg. Res. Lab.)

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Enzyme Research Division. (800 Buchanan Street, Albany 6, California.)

Purification of barley malt alpha-amylase. By Sigmund Schwimmer. Cereal Chem. 24(5): 315-325. 1947.

Purification of alpha-amylase from barley malt extracts. (Abs.) By Sigmund Schwimmer. Fed. Amer. Socs. Expt. Biol. Proc. 7(No. I, pt. I): 186. 1948.

A crystalline beta-amylase from sweet potatoes. By A. K. Balls, M. K. Walden, and R. R. Thompson. Jour. Biol. Chem. 173(1): 9-19. 1948.

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Activation of soy bean lipoxidase. By Marian W. Kies. Jour. Biol. Chem. 170(1): 121-132. 1947.

Apparent specific inhibition of plant acetylsterase by diisopropyl fluorophosphate. By E. F. Jansen, Marvel-Dare Fellows Nutting, and A. K. Balls. Jour. Biol. Chem. 170(1): 417-418. 1947.

A new mode of enzymatic phosphate transfer. By Bernard Axelrod. Jour. Biol. Chem. 172(1): 1-13. 1948.

Serine content of purothionin. (Abs.) By M. K. Walden. Fed. Amer. Socs. Expt. Biol. Proc. 7(No. I. pt. I): 198. 1948.

Allergen Research Division. (South Building, U. S. Department of Agriculture,
Washington 25, D. C.)

Chemical determination of tryptophan. Study of color-forming reactions of tryptophan, para-dimethylaminobenzaldehyde and sodium nitrite in sulfuric acid solution. By Joseph R. Spies and Dorris C. Chambers. *Analyt. Chem.* 20(1): 30-39. 1948.

Photochemistry of tryptophan, para-dimethylaminobenzaldehyde and reaction products in sulfuric acid solution. By Joseph R. Spies and Dorris C. Chambers. *Amer. Chem. Soc. Jour.* 70(5): 1682-1685. 1948.

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Louisiana.)

Properties of elecresins, rosins, and turpentine from chemically stimulated slash and longleaf pines. By L. W. Mims and M. C. Schopmeyer. *Indus. and Engin. Chem.* 39(11): 1504-1506. 1947.

Pine gum, processing labor and fuel costs. By H. P. Poole and E. L. Patton. *Chem. Engin.* 54(8): 102-103. 1947.

Emulsion polymerization of myrcene. By A. J. Johanson, F. L. McKennon, and L. A. Goldblatt. *Indus. and Engin. Chem.* 40(3): 500-502. 1948.

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Recovery of rubber latex from guayule shrub. By Edwin P. Jones. *Indus. and Engin. Chem.* 40(5): 864-874. 1948.

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The storage of corncobs and other agricultural residues for industrial use. By J. W. Dunning, P. Winter, and D. Dallas. *Agr. Engin.* 29(1): 11-13, 17. 1948.

Regional Research Laboratories

Northern Regional Research Laboratory. (825 North University Street, Peoria 5, Illinois.)

The small rural industry-a study of the possibility of making insulating board from straw. By E. C. Lathrop, T. R. Naffziger, and R. V. Williamson. U. S. Dept. Agr. Cir. 762. 22pp. 1947.

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Pulping with sodium sulphite to produce strawboard. By S. I. Aronovsky, A. J. Ernst, and H. M. Sutcliffe. Paper Trade Jour. 125(19): 90, 92, 94. 1947.

The manufacture of straw pulp. By S. I. Aronovsky. Paper Indus. and Paper World. Part I. 30(1): 71-78; Part II. 30(2): 244-251. 1948.

Rapid estimation of moisture of straw in bales. By S. I. Aronovsky and H. M. Sutcliffe. Paper Trade Jour. 126(3): 51-54, 56. 1948.

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Agricultural residue fibers for gas mask filters. By S. I. Aronovsky. G. H. Nelson, and E. C. Lathrop. Paper Indus. and Paper World 29(9): 1300-1303. 1947.

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Structure and synthesis of gymnosperm lignin. By Alfred Russell. Tech. Assoc. Pulp and Paper Indus. Monograph Series No. 6, pp. 220-234. 1948.

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- Production of maltose sirups from granular wheat flour. By Aaron Efron and R. H. Blom. Indus. and Engin. Chem. 40(3): 412-415. 1948.
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- Production of mold amylases in submerged culture. By E. H. Lemense, Julian Corman, J. M. Van Lanen, and A. F. Langlykke. Jour. Bact. 54(2): 149-159. 1947.
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Southern Regional Research Laboratory. (2100 Robert E. Lee Boulevard, New Orleans 19, Louisiana.)

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